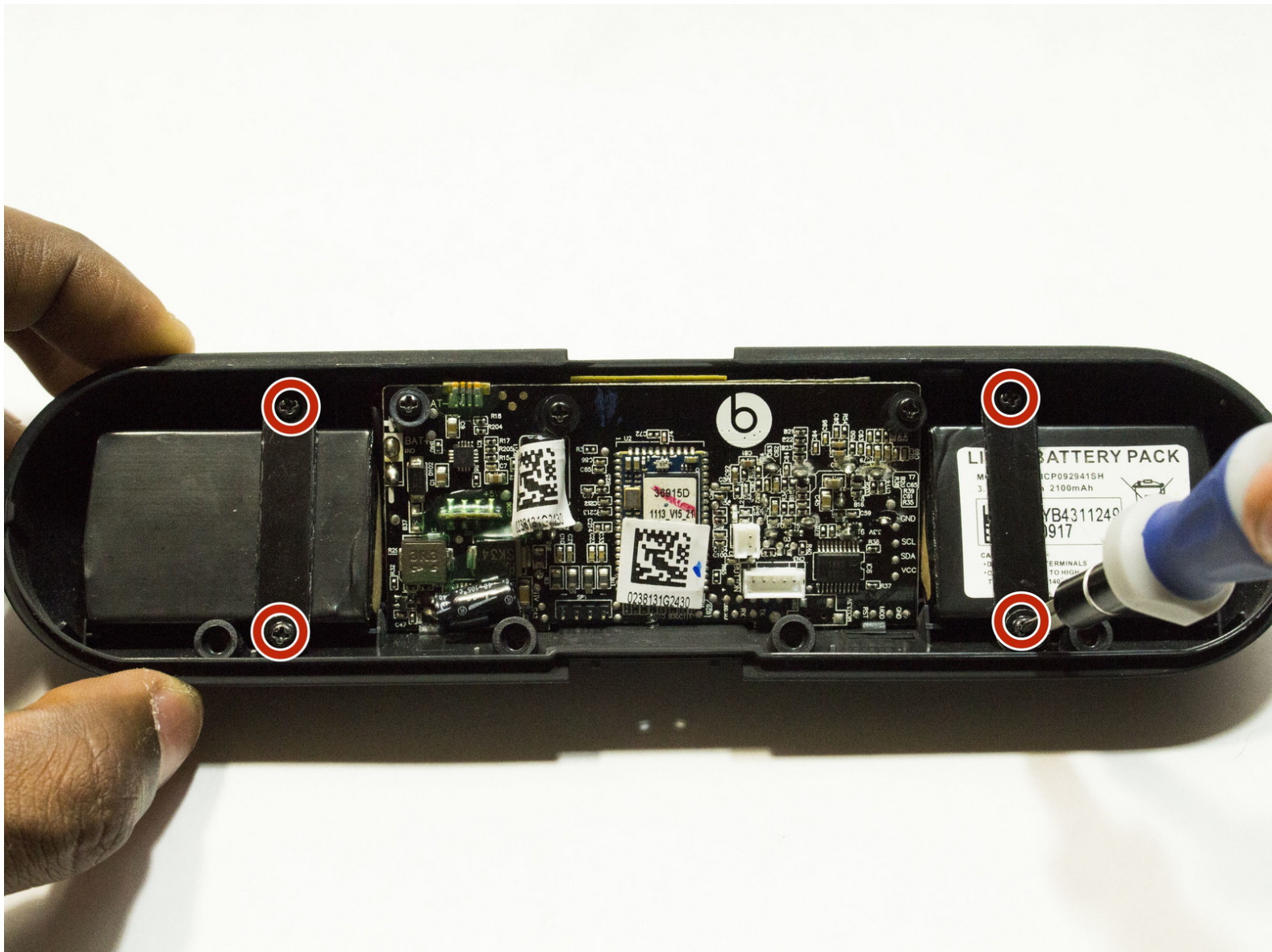




# Beats Pill 1.0 Motherboard Replacement

This guide will explain how to replace the motherboard of the Beats Pill 1.0.

Written By: Thomas Netherton



## INTRODUCTION

This guide will explain how to remove and replace the speakers on the Beats Pill 1.0. This will require almost complete disassembly of the device.

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### TOOLS:

- [Phillips #0 Screwdriver](#) (1)
  - [Tweezers](#) (1)
  - [Wire Stripper](#) (1)
  - [Soldering Station](#) (1)
  - [Spudger](#) (1)
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## Step 1 — Removing the Case Screws



- Remove rubber stand from the lower portion of the device. Use a phillips head screw driver, size (PH00 or PH0) to remove the six screws located under the rubber stand. The two band screws being 6.97 mm and four case screws being 9.11 mm in length.
- Use the rubber tool to remove the speaker.
- Remove the screws on the back of the pill.

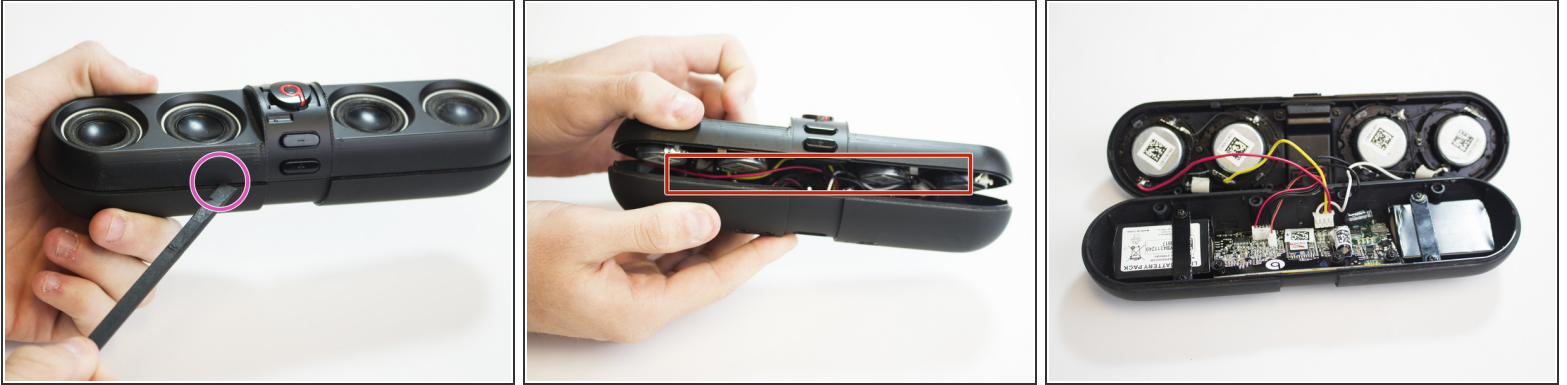
## Step 2 — Removing Center Cover



- Remove center cover by prying underneath the seal. Note: (use care due to adhesive located underneath). Then remove plastic clip rings around the center band.
- Remove the two screws under the pill.

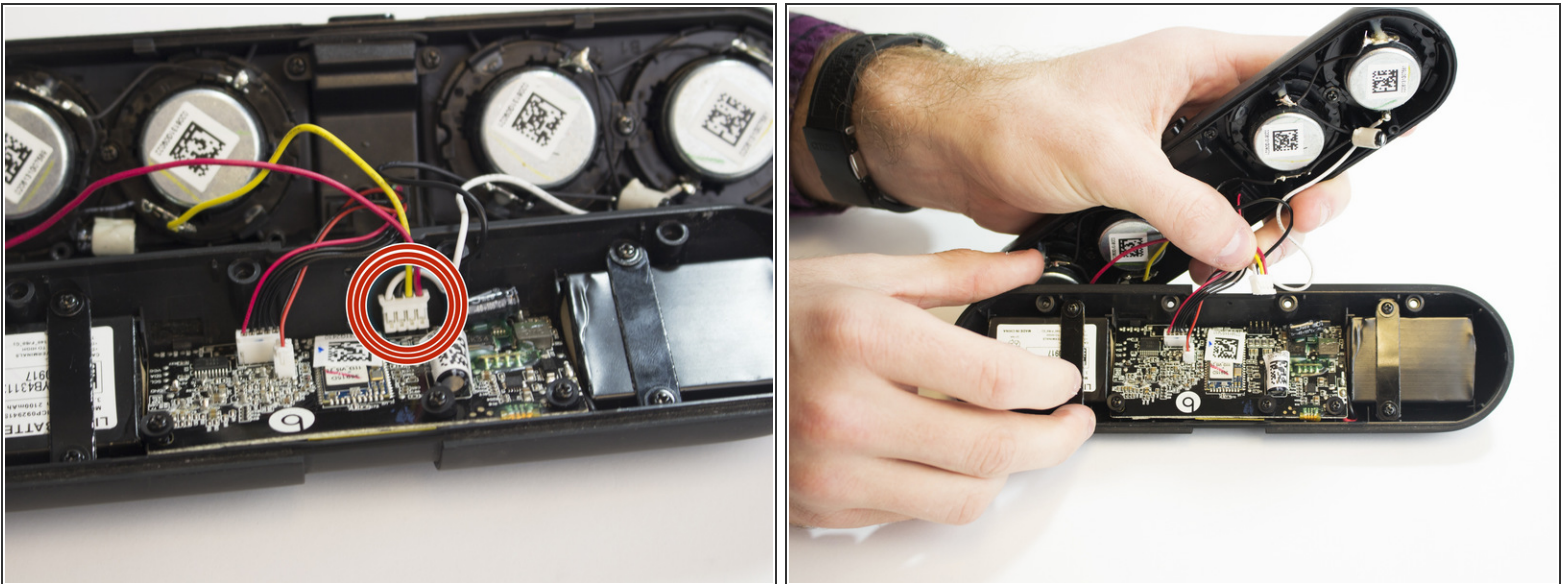


### Step 3 — Separate the Device



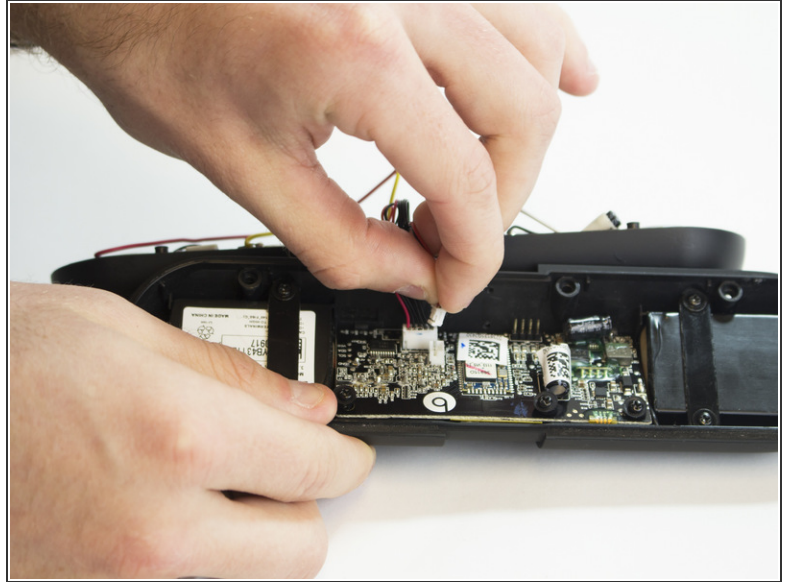
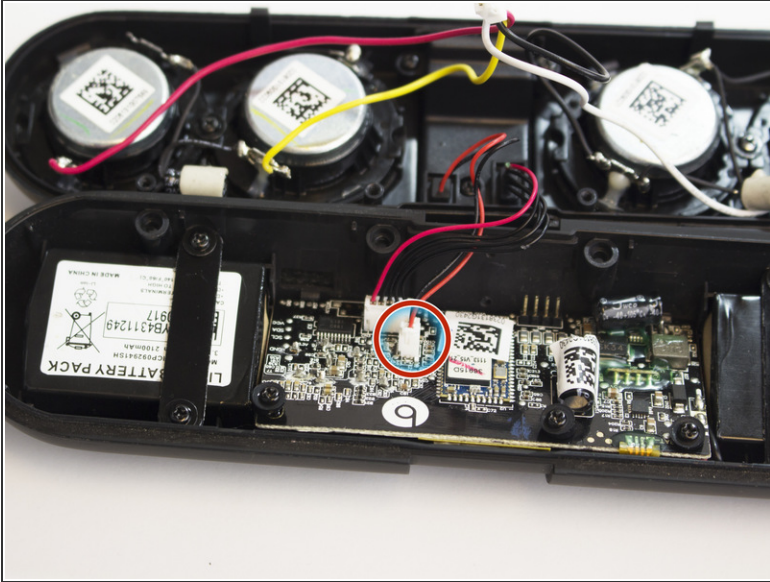
- Pry the top half of the device from the center crevice to reveal the inner circuits.
- Use your tool to get the middle of the pill to open

### Step 4 — Disconnect Speaker Wiring



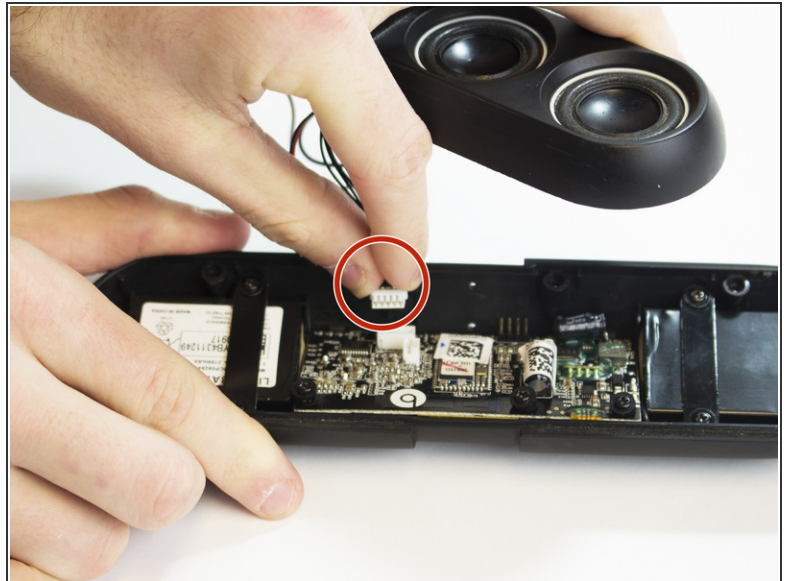
- Remove speaker pins (yellow, red, black, white) from the mother board. Note: (Be sure to use caution and ground yourself when touching the motherboard) No particular wire disassembly order needed, just be sure to write down where each wire pin was unplugged from.

## Step 5 — Disconnect NFC Sensor Wiring



- Remove the red "b" button connector. This connector contains two wires, a red and black wire.

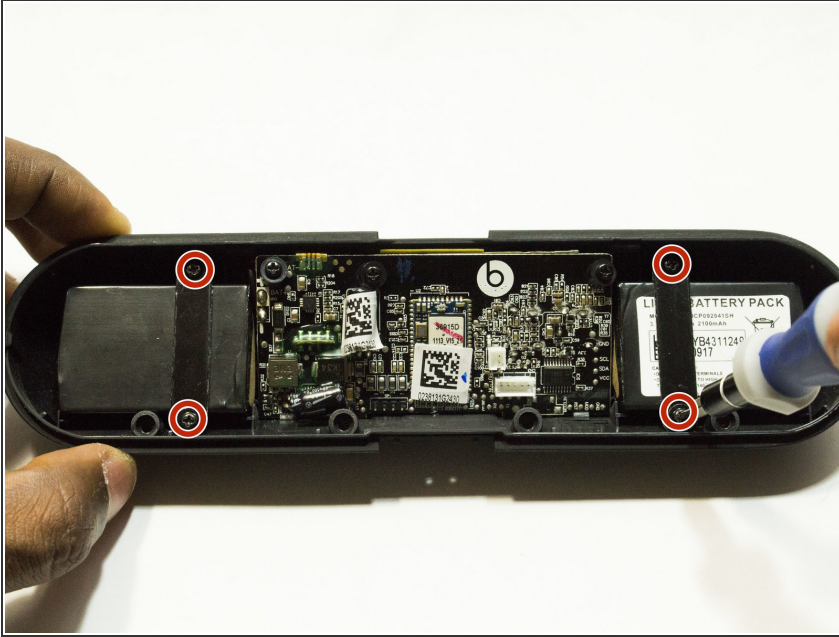
## Step 6 — Disconnect Control Wiring



- Unplug the front panel control connector. This is a five wire connector that contains four black wires and one red.

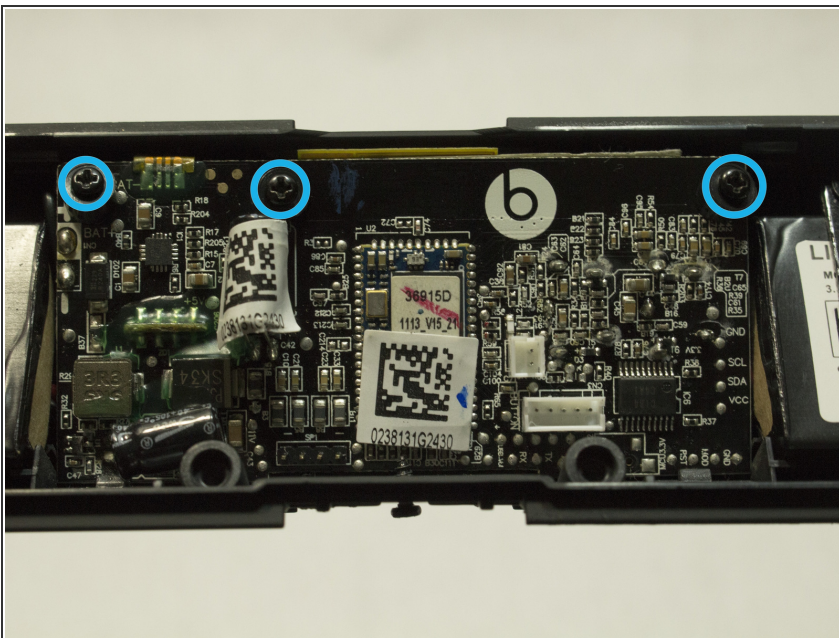


## Step 7 — Motherboard



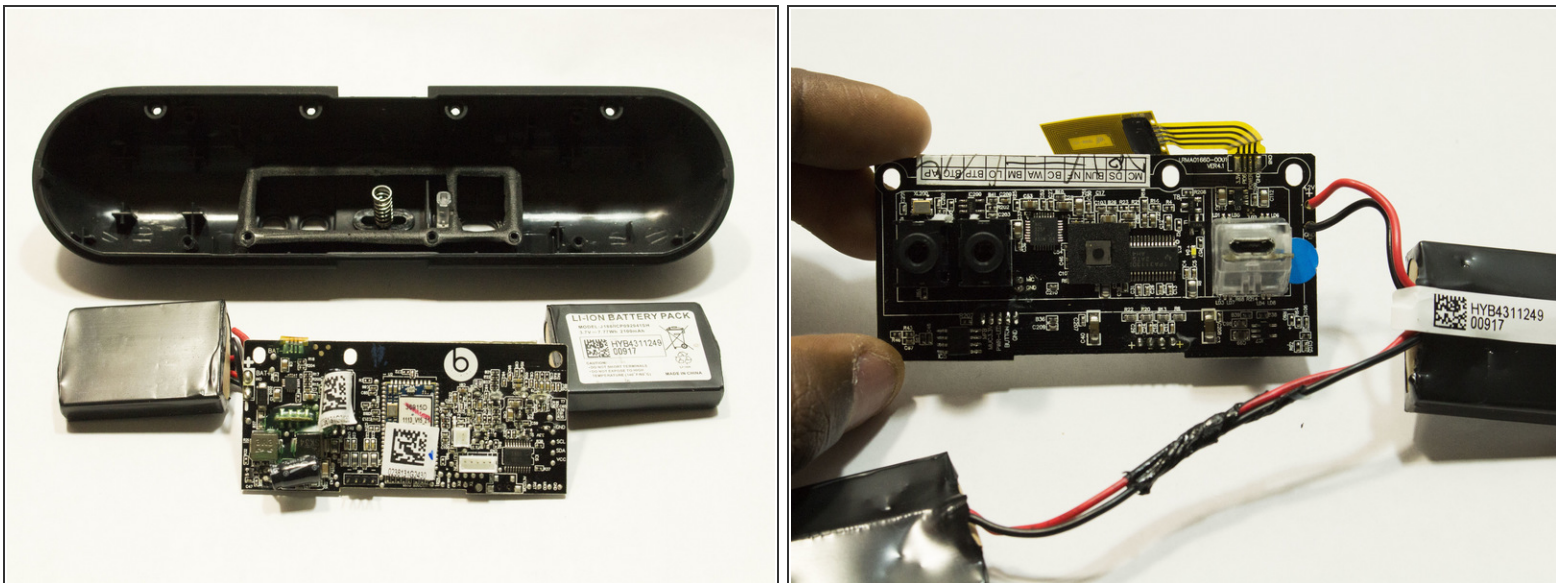
- Using a PH0 or PH00 bit head unscrew the four (diameter = .072 in, length = .239 in) screws holding the band holding the battery in place.

## Step 8



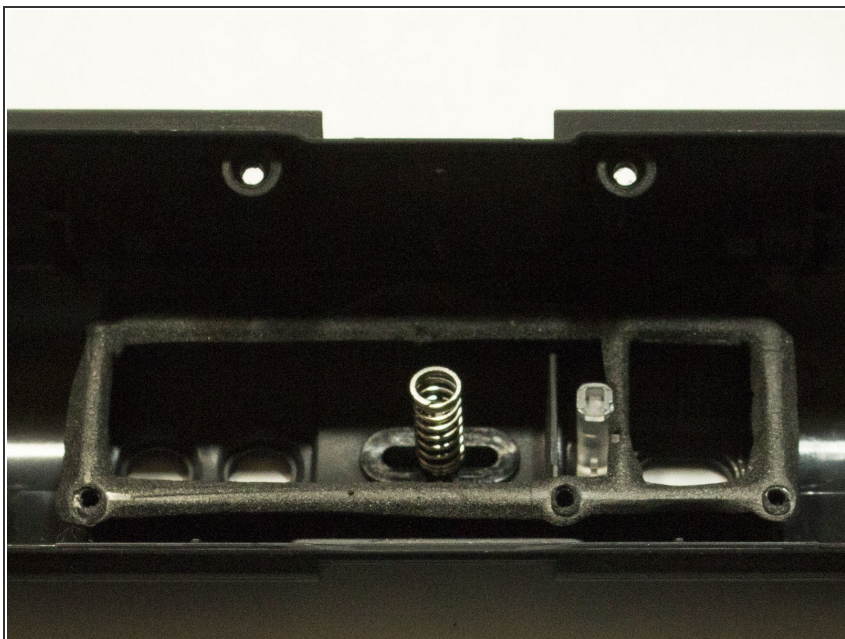
- Using the same bit size remove the three screws (diameter = .072 in, length = .354 in) for the motherboard and rubber stopper attached to the screw.

## Step 9



- Remove the motherboard from the tabs and gently lift it out of the case. Remove the yellow NFC module that is attached to the motherboard from the plastic casing with tweezers.

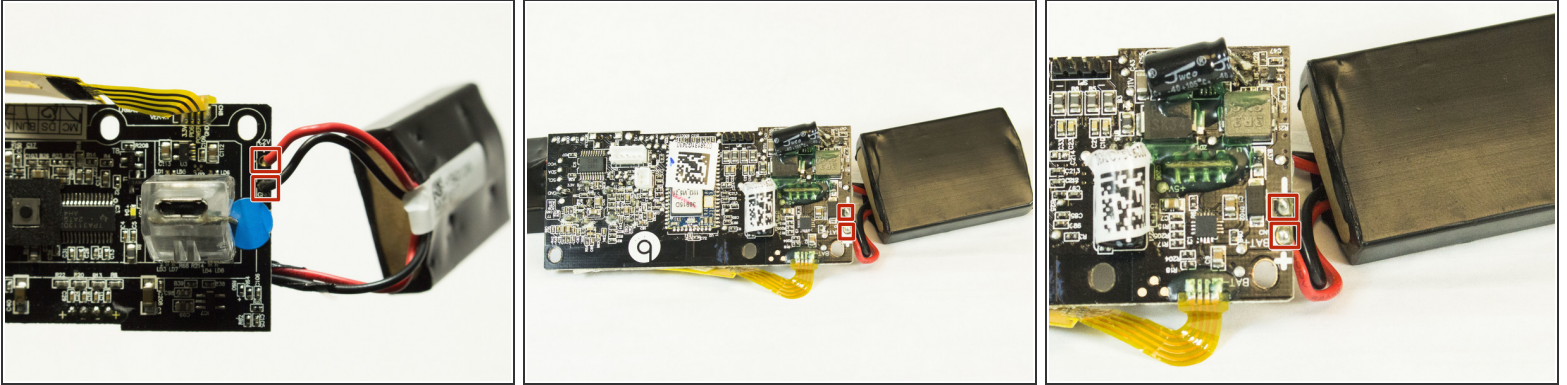
## Step 10



- Remove power button and springs.

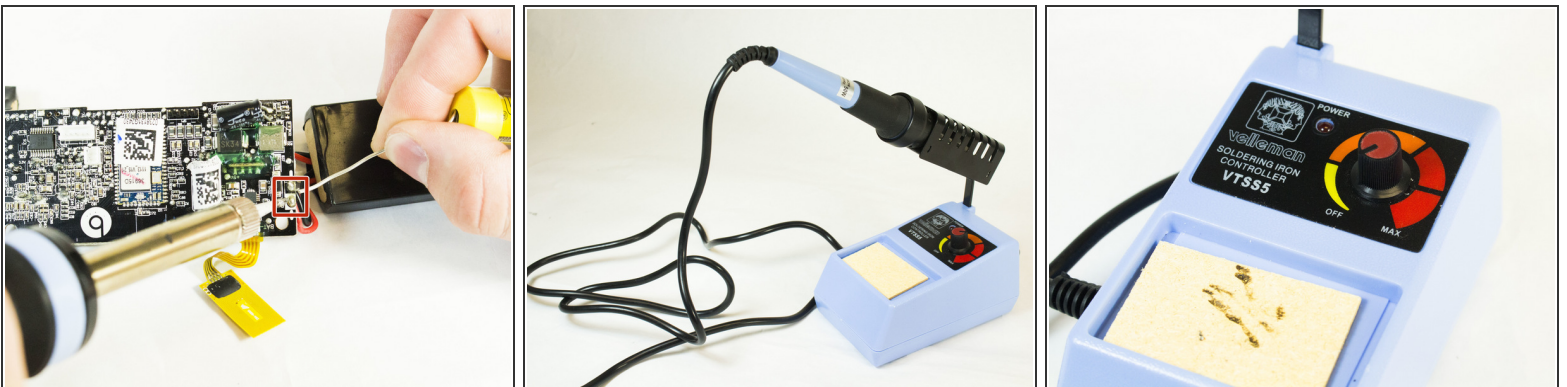


## Step 11



- Using a wire stripper cut the red and black wires attached to the motherboard.

## Step 12



- Using a soldering iron attach the battery to the new motherboard with the red wire connecting to the 0.2 volts (+) and black wire connecting to the ground (-). Please refer to our [soldering guide](#) for more information.

To reassemble your device, follow these instructions in reverse order.

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